

AMENDMENTS TO THE SPECIFICATION

Please replace the fourth full paragraph on page 2 with the following amended paragraph:

According to the present invention, a gas seal structure comprises a main seal means that is made of rubber and is disposed between two seal surfaces; a sub-seal means that is made of resin and is disposed between the two seal surfaces, the sub-seal means being located closer to a higher-pressure region than the main seal means and being provided with a concave groove; and a pressure variation reducing means that is disposed between the main seal means and the sub-seal means and has a variation reducing space connected to a gap formed between the two seal surfaces and having a volume that is able to inhibit occurrence of a blistering phenomenon in the main seal means.